Disentangling 3D Attributes from a Single 2D Image: Human Pose, Shape and Garment

Xue Hu,1* Xinghui,2* Benjamin Busam,3 Yiren Zhou,4 Ales Leonardis,4 Shanxin Yuan 4

1. Imperial College London, 2. University of Oxford, 3. Technical University of Munich, 4. Huawei Noah’s Ark Lab

*equal contribution

Architecture of our method

Example results of surface reconstruction after uncontrolled swapping of both body pose and shape

Comparison of direct reconstruction using SDF and occupancy

Table 1: Reconstruction error (median) after swapping the latent code of body shape, pose and garment style, using SDF and occupancy.